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LANGUAGE: English
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L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1996:231992 CAPLUS
DOCUMENT NUMBER: 124:252725
ORIGINAL REFERENCE NO.: 124:46633a,46636a
TITLE: Amplification of multiple target nucleic acids in a sample using a volume exclusion agent to increase the efficiency of amplification
INVENTOR(S): Backus, John Wesley
PATENT ASSIGNEE(S): Johnson and Johnson Clinical Diagnostics, Inc., USA; Ortho-Clinical Diagnostics, Inc.
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 702090	A2	19960320	EP 1995-306480	19950914
EP 702090	A3	19980304		
EP 702090	B1	20040506		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5705366	A	19980106	US 1994-306792	19940915
CA 2158486	A1	19960316	CA 1995-2158486	19950914
CA 2158486	C	20071106		
JP 08103300	A	19960423	JP 1995-236899	19950914
JP 3802110	B2	20060726		
AT 266102	T	20040515	AT 1995-306480	19950914
PT 702090	E	20040930	PT 1995-306480	19950914
ES 2219655	T3	20041201	ES 1995-306480	19950914

PRIORITY APPLN. INFO.: US 1994-306792 A 19940915

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Multiple target nucleic acids in a single sample are amplified using polymerase chain reaction in the presence of a nonionic, polymeric volume exclusion agent. The amplification efficiency of low copy target nucleic acids is increased in the presence of the volume exclusion agent even though lower concns. of primers are used. In this manner, amplification efficiency of a given target nucleic acid can be more readily manipulated. The exclusion agents can be incorporated into kits. The use of PEG 8000 as a volume exclusion agent in PCR is demonstrated. The efficiency of the reaction was increased when the polymer was used, even at low DNA polymerase activities (8 units/200 μ L) and primer concns. of 0.1 μ M.

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

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ACCESSION NUMBER: 1987:103013 CAPLUS
DOCUMENT NUMBER: 106:103013
ORIGINAL REFERENCE NO.: 106:16891a,16894a
TITLE: Flexible polymers with excluded volume at a penetrable interacting surface
AUTHOR(S): Douglas, Jack F.; Wang, Shi Qing; Freed, Karl F.
CORPORATE SOURCE: James Franck Inst., Univ. Chicago, Chicago, IL, 60637, USA

SOURCE: Macromolecules (1987), 20(3), 543-51
 CODEN: MAMOBX; ISSN: 0024-9297

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Polymers, terminally attached to a d.dbldvert.-dimension penetrable interacting hypersurface, are described by using the 2-parameter model of excluded volume, a pseudopotential polymer-surface interaction model, and the renormalization group method. The dimensionality of the hypersurface is fixed as d.dbldvert. = 2, so that the ϵ -expansion ($\epsilon = 4 - d$ with d the dimension of space) method can be applied to both the polymer-polymer and polymer-surface interactions. Then the mean-square end-to-end vector distance $\langle R^2 \rangle$ is calculated to first order in ϵ as a function of polymer-surface and polymer-polymer interactions. The result is compared to $\langle R^2 \rangle$ for a terminally attached polymer at an impenetrable interacting surface. An increase in the chain expansion due to repulsive excluded volume interactions leads to a decrease in the effects of repulsive polymer-surface interactions on the polymer dimensions. This phenomenon is an apparent consequence of the lower d. of the chain upon expansion and the resultant lower probability of the chain encountering the surface. Scaling arguments, on the other hand, indicate that attractive surface interactions amplify the effect of the excluded volume interaction.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

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ACCESSION NUMBER: 1978:542796 CAPLUS

DOCUMENT NUMBER: 89:142796

ORIGINAL REFERENCE NO.: 89:22089a,22092a

TITLE: Volume exclusion errors and the determination of serum zinc

AUTHOR(S): Boyde, T. R. C.; Wu, S. W. N.

CORPORATE SOURCE: Dep. Biochem., Univ. Hong Kong, Hong Kong

SOURCE: Clinica Chimica Acta (1978), 88(1), 49-56
 CODEN: CCATAR; ISSN: 0009-8981

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Volume exclusion gives rise to pos. errors in the results of plasma or serum Zn detns. by methods in which protein is precipitated and the Zn extracted into solution prior to atomic absorption spectrometry. The error is amplified if 2 extraction steps are employed, and may be $\geq 20\%$. The same effects must be expected in any anal. involving comparable extraction procedures, whatever the substance being determined

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(FILE 'HOME' ENTERED AT 08:39:17 ON 05 JUL 2011)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 08:39:36 ON 05 JUL 2011

L1 2856 S (PCR) AND (DEXTRAN OR POLYETHYLENE OR COSOLVENT)

L2 642 S L1 AND PY<2002

L3 409 DUP REM L2 (233 DUPLICATES REMOVED)

L4 6 S L3 AND MULTIPLEX

L5 11 S (VOLUME(W)EXCLU?) AND (PCR OR AMPLIF?)

L6 9 DUP REM L5 (2 DUPLICATES REMOVED)

=> d hist full

(FILE 'HOME' ENTERED AT 08:39:17 ON 05 JUL 2011)